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Patent 7,349,436

PATENT

**IN UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent No.: 7,349,436

Docket No: 884.A52US1

Issue Date: March 25, 2008

Patentee: Alexander A. Maltsev et al.

Customer No.: 21186

Confirmation No.: 3228

Title SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND  
WIRELESS LOCAL AREA NETWORK COMMUNICATIONS

**REQUEST FOR CERTIFICATE OF CORRECTION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTN: CERTIFICATE OF CORRECTION BRANCH

It is requested that a Certificate of Correction be issued correcting printing errors appearing in the above-identified United States patent. A copy of the text of the Certificate in the suggested form are enclosed.

**Pursuant to 1.20(a), please charge Deposit Account No. 19-0743 in the amount of \$100.00.**

Issuance of the Certificate of Correction would neither expand nor contract the scope of the claims as properly allowed, and re-examination is not required.

The Examiner is authorized to charge any additional fees or credit overpayment to Deposit Account No.19-0743.

Respectfully Submitted,

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
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Date: May 12, 2008

By:

*Gregory J. Gorrie*  
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**CERTIFICATE UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 13 day of May 2008

*Richard Beck*  
Name

*Richard Beck*  
Signature



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander A. Maltsev et al.

Examiner: Jones, Prenell

Patent No.: 7,349,436

Group Art Unit: 2619

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Title: SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND WIRELESS LOCAL AREA  
NETWORK COMMUNICATIONS

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- ☒ A return postcard.

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SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner of Patents and Trademarks, P.O. Box 1450, Alexandria VA 22313-1450, on this 13 day of May 2008.

Richard Beck  
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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,349,436

Page (1) of 1

DATED : March 25, 2008

INVENTOR(S) : Maltsev et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 18, line 28, in Claim 30, delete "on each the" and insert - - on each of the - -, therefor.

MAILING ADDRESS OF SENDER:

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Atty Docket No: 884.A52US1

PATENT NO. 7,349,436

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# SCHWEGMAN LUNDBERG & WOESSNER

Issued Patent Proofing Form

File#: 884.A52US1

Note: P = USPTO Error

S = (SLWip) Error

Proofread By: Rajiv (03/31/2008)

US Serial No.: 10/676,372

US Patent No.: US 7,349,436 B2

Issue Date: Mar. 25, 2008

Title: SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND WIRELESS LOCAL AREA  
NETWORK COMMUNICATIONS

PR Instructions: Face Page, Claims and Abstract

S. No.	P/S	Original		Issued Patent		Description of Error
		Page	Line	Column	Line	
1	S	Page 12 Claims (07/23/2007)	Claim 30 Line 6	18	28	In Claim 30, delete "on each the" and insert - - on each of the - -, therefor.

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22. The communication unit of claim 21 wherein when the wideband-header field includes an indication of a presence of the wideband-data field, the physical layer is to further communicate the wideband-data field as part of the packet on the channels identified by the channelization field.

23. A system for wirelessly communicating over a wideband communication channel comprising a plurality of orthogonal frequency division multiplexed (OFDM) channels, the system comprising:

an omnidirectional antenna;

a physical layer to communicate a packet with the omnidirectional antenna, the packet comprising at least a channelization field communicated on a single OFDM channel to identify which of the OFDM channels that are used for communicating subsequent wideband fields of the packet, and to communicate a wideband-header field on the identified OFDM channels, the wideband-header field to identify sub-fields present in the wideband-header field and the presence of a wideband-data field following the wideband-header field; and

a medium access control layer to select channels for communication by the physical layer and obtain access to the selected channels,

wherein the OFDM channels that comprise the wideband channel are separated in frequency from each other.

24. The system of claim 23 wherein the physical layer is to communicate the channelization field on a compatibility channel of an allocated portion of spectrum comprising a plurality of channels, and is to communicate the wideband-header field on the identified channels including the compatibility channel,

wherein the comparability channel comprises a single one of the OFDM channels.

25. The system of claim 23 wherein the physical layer is to further communicate a wideband-training field as part of the packet following the channelization field, the wideband-training field comprising a training sequence on the channels identified by the channelization field,

wherein when the wideband-header field includes an indication of a presence of the wideband-data field, the physical layer is to further communicate the wideband-data field as part of the packet on the channels identified by the channelization field.

26. A computer-readable medium that stores instructions for execution by one or more processors, cause said processors to perform operations for wirelessly communicating a packet over a wideband communication channel comprising a plurality of orthogonal frequency division multiplexed (OFDM) channels including communicating a channelization field on a single OFDM channel identifying which of the OFDM channels that are used for communicating subsequent wideband fields of the packet, and further comprising a wideband-header field on each of the identified OFDM channels to identify sub-fields present in the wideband-header field and the presence of a wideband-data field following the wideband-header field,

wherein the OFDM channels that comprise the wideband channel are separated in frequency from each other.

27. The computer-readable medium of claim 26 wherein the instructions, when further executed by one or more of said processors cause said processors to perform operations further comprising:

communicating the channelization field on a single compatibility channel of an allocated portion of spectrum comprising a plurality of channels; and

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communicating the wideband-header field on the identified channels including the compatibility channel, wherein the single compatibility channel comprises one of the single OFDM channels.

28. The computer-readable medium of claim 26 wherein the instructions, when further executed by one or more of said processors cause said processors to perform operations further comprising communicating a wideband-training field as part of the packet following the channelization field, the wideband-training field comprising a training sequence on the channels identified by the channelization field.

29. The computer-readable medium of claim 28 wherein the instructions, when further executed by one or more of said processors cause said processors to perform operations wherein when the wideband-header field includes an indication of the presence of the wideband-data field, the communicating further comprises communicating the wideband-data field as part of the packet on the channels identified by the channelization field.

30. A wireless communication packet for communication over a wideband communication channel comprising a plurality of orthogonal frequency division multiplexed (OFDM) channels, the packet comprising:

a channelization field communicated on a single OFDM channel identifying which of the OFDM channels that are used for communicating subsequent wideband fields of the packet; and

a wideband-header field for communication on each the identified OFDM channels to identify sub-fields present in the wideband-header field and the presence of a wideband-data field following the wideband-header field,

wherein the channels comprise a plurality of substantially orthogonal symbol-modulated subcarriers, wherein the OFDM channels that comprise the wideband channel are separated in frequency from each other.

31. The packet of claim 30 wherein the channelization field is for communication on a single compatibility channel assigned an allocated portion of spectrum comprising the plurality of channels, and

wherein the wideband-header field is for communication on the identified channels including the compatibility channel,

wherein the compatibility channel comprises one of the single OFDM channels.

32. The packet of claim 30 further comprising:

a wideband-training field to follow the channelization field, the wideband-training field comprising a training sequence for communication on the channels identified by the channelization field,

wherein when the wideband-header field includes an indication of the presence of the wideband-data field, the packet includes the wideband-data field for communication on the channels identified by the channelization field.

33. A communication packet comprising:

a channelization field identifying channels that are used for communicating subsequent wideband fields of the packet;

a wideband-header field for communication on the identified channels to identify sub-fields present in the wideband-header field and the presence of a wideband-data field following the wideband-header field, wherein the channels comprise a plurality of substantially orthogonal symbol-modulated subcarriers; and

a long-compatibility field for communication on the compatibility channel, the long-compatibility field compris-